

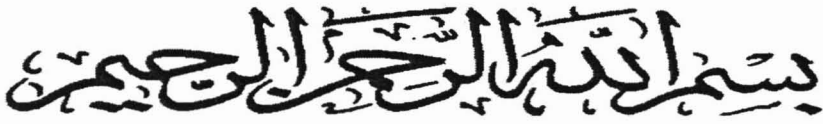
**WEATHERED OIL PALM TRUNK AS ALTERNATIVE RAW
MATERIAL FOR CEILING BOARD (*Elaeis guineensis*)**

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ABSTRACT

This project was undertaken by students in their final semester to complete the study. This project aims to solve the problem of shortage of wood resources and are replaced by biomass material, to overcome this deficiency, a study was conducted to are looking for a new alternative using wheathered Oil Palm trunk to be a similar composite such as particleboard or cement board. This composite manufacturing using oil palm trunks as material and phenol formaldehyde as a binder to be mixed to form a ceiling board. The resin content used is 7%, 9% and 11% and ceiling has been completed will be tested to get the results of composite properties and physical properties

In addition, I have made benchmarking between the ceiling boards from weathered oil palm trunk with the ceiling board from gypsum . The mechanical and physical properties tests have also been made to gpysum board.